

68-229210/34 MITSUBISHI RAYON KK 12.01.87-JP-004653 (16.07.88) C081-67	A23 D16 12.01.87-JP-004653 (16.07.88) C081-67	MITR 12.01.87 *J6 3172-762-A	A(3-C, 5-E1A2, 5-E2, 7-A3A) D(5-C)
Polyester resin compen. used in film fibre prodn. - has poly-beta hydroxy butyrate added to crystalline solid. polyester resin C08-107225			magnesium sulphate (0.5 g/l) calcium chloride (0.11 g/l) ferrous sulphate (0.012 g/l) sodium molybdate (0.0025 g/l) and sodium chloride (0.4 g/l) and cultivated for 48 hrs. in mini-fermenter. Microorganism was isolated by centrifuge, washed with water and acetone, and then extracted by chloroform. The biomass was coagulated by adding n-hexane, and dried, so that 7.8g of poly-beta-hydroxybutyrate was obtd. It was optically active and had average mol. wt. of about 1,800,000.
The compen. is characterized in that poly-beta-hydroxybutyrate is added to crystalline solid, polyester resin.			
USE/ADVANTAGE			
The compen. is useful for preparing film, fibre, heat resistant bottle, tube, opener-tray etc. Through incorporating poly-beta-hydroxybutyrate, the compen. has high crystallization speed, that is pref. for preparing a prod. by fixing the shape or dimension through crystallizing the moulding after moulding with low temp. mould of plastic fabrication.			
EXAMPLE			
[Prepn. of poly-beta-hydroxybutyrate]. A culture liquid contg. 0.3 g of Alcaligenes entrophus were put in one litre of culture liquid contg. glucose 50 g/l ammonium nitrate (6 g/l) potassium secondary phosphate (5 g/l)			
			[Prepn. of resin compen.]. Diamine MA-521* (RTM: poly-ethyleneterephthalate, intrinsic viscosity = 0.73) (96 pts. wt) and poly-beta-hydroxybutyrate (6 pts. wt) were dried up at 110 deg. C taking 12 hrs. or more, and then melt mixed using extruder at cylinder temp. of 235 deg. C. (5ppW19-BW No6/0).
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